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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/698,704	10/31/2003	Robert O. Conn	X-1416-3 US	1939
24309 XILINX, INC	7590 09/02/200	EXAMINER		
ATTN: LEGAL	DEPARTMENT	WILLIAMS, ALEXANDER O		
	2100 LOGIC DR SAN JOSE, CA 95124		ART UNIT	PAPER NUMBER
			2826	
			MAIL DATE	DELIVERY MODE
			09/02/2008	PAPER

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
	10/698,704	CONN, ROBERT O.					
Office Action Summary	Examiner	Art Unit					
	Alexander O. Williams	2826					
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address					
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period v  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 03 Ju	ine 2008						
•	action is non-final.						
· <u> </u>							
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-8 and 12-16</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-8 and 12-16</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	jected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list	or the certified copies not receive	a.					
Attachmont(a)							
Attachment(s)  1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate					
Information Disclosure Statement(s) (PTO/SB/08)     Paper No(s)/Mail Date	5)  Notice of Informal P 6)  Other:	atent Application					

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Serial Number: 10/698704 Attorney's Docket #: X-1416-3US

Filing Date: 10/31/2003;

Applicant: Conn Examiner: Alexander Williams

Applicant's Amendment filed 6/3/08 to the election of Group I (claims 1 to 8 and 12 to 16) filed 6/29/05 to the species elected of species of figures 1 to 7 filed 4/4/05 has been acknowledged.

Claims 9-11 have been cancelled.

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the interposing structure disposed **inside the integrated circuit package** between the integrated circuit die and the inside surface of the integrated circuit package in claim 1; and the means being disposed **inside the integrated circuit package** between the integrated circuit die and the inside surface of the integrated circuit package in claim 12 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for

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consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claims 1 to 8 and 12 to 16 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1 and similar claim 12, it is unclear and confusing to what is meant by and what shows the interposing structure disposed **inside the integrated circuit package** between the integrated circuit die and the inside surface of the integrated circuit package." How is the interposing structure inside the integrated circuit package? Please explain the claimed structure as it relates to the drawings and specification so the examiner can better understand what is being claimed.

Any of claims 1 to 8 and 12 to 16 not specifically addressed above are rejected as being dependent on one or more of the claims which have been specifically objected to above.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

<sup>(</sup>b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1- 8 and 12-16, **insofar as they can be understood**, are rejected under 35 U.S.C. 102(e) as being anticipated by Edward et al. (U.S. Patent # 6,541,365,B2).

1. In claim 1 and similar claim 12, Edwards et al. (figures 1 to 4) specifically figure 4 show an assembly, comprising: an integrated circuit die 20 having an array of micro-bumps 33 disposed on a surface of the integrated circuit die in a first pattern; an integrated circuit package 10 having an array of landing pads 12 disposed on an inside surface of the integrated circuit package in a second pattern and array of solder balls 16 disposed on an outside surface of the integrated circuit package, wherein the first pattern and the second pattern are substantially identical patterns; and an interposing structure 25 disposed inside the integrated circuit package between the integrated circuit die and the inside surface of the integrated circuit package, the interposer electrically coupling a first micro-bump in a first position in the array of micro-bumps to a first landing pad 18 located opposite to the first position and to a second landing pad 12 in the array of landing pads.

## Response

Applicant's arguments filed 6/3/2008 have been fully considered, but are moot in view of the new grounds of rejections detailed above.

The listed references are cited as of interest to this application, but not applied at this time.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander O. Williams whose telephone number is (571) 272 1924. The examiner can normally be reached on M-F 6:30AM-7:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sue Purvis can be reached on (571) 272 1236. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Alexander O Williams/ Primary Examiner, Art Unit 2826

AOW 9/2/2008